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Application of Markov normal processes to evaluate educational quality.

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Summary: In this paper, a method of dividing state space is proposed firstly by using the normal distribution. Secondly, the Markov normal process is transfer to a Markov chain, and a one step transition matrix for different division of state is introduced. In addition, the teaching efficiency is determined by applying a weight-plus mean, then, a new method for evaluating teaching effectiveness is introduced, and its feasibility and effectiveness are tested through examples.

Classification: C70 M70

Keywords: Markov process; state space; weight matrix; mathematical applications; educational quality; evaluation; effectiveness